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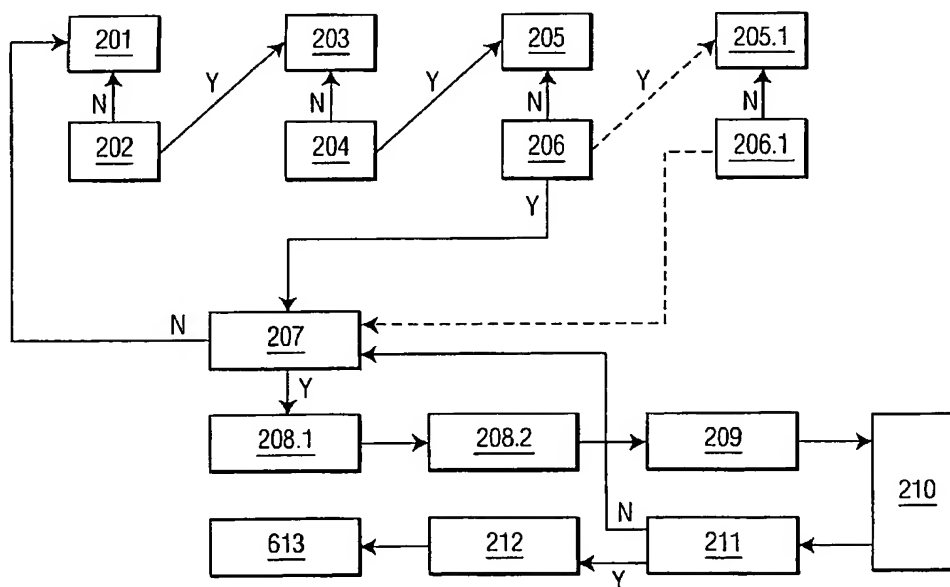
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(54) Title: METHOD AND DEVICE USING RANDOMIZED HOUGH TRANSFORM FOR DETECTING RADIO SYSTEMS  
WITH PERIODIC EMISSION PATTERN



(57) Abstract: The invention includes a method and device for identifying opportunities to transmit in a radio network. The method and device listen for a first, second, and third period of time to detect first, second, and third busy slots. A processor recognizes a sequence of the first, second, and third busy slots as a function of time, performs a Randomized Hough Transform on the sequence, generates a histogram based on the Randomized Hough Transform, identifies peaks in the histogram, determines whether the peaks correspond to a known radar, and identifies an opportunity to transmit.

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